

Title (en)

DETERMINATION OF RHEOLOGY OF FLUID IN AN OIL OR GAS WELL

Title (de)

BESTIMMUNG DER RHEOLOGIE VON FLUID IN EINEM ÖL- ODER GASBOHRLOCH

Title (fr)

DÉTERMINATION DE LA RHÉOLOGIE D'UN FLUIDE DANS UN Puits DE PÉTROLE OU DE GAZ

Publication

**EP 3994337 A4 20220727 (EN)**

Application

**EP 20834448 A 20200702**

Priority

- US 201962870290 P 20190703
- US 2020040652 W 20200702

Abstract (en)

[origin: US2021002970A1] The invention relates to the measurement of the rheology of drilling fluid down a hydrocarbon well in real time during operations. A sensor device comprising a pipe rheometer with multiple diameters is installed in a bottom hole assembly tool, such that a portion of the total flow of drilling fluid passes through it. In this way the rheological properties of the drilling fluid can be determined under the high pressures and elevated temperatures encountered downhole.

IPC 8 full level

**E21B 21/08** (2006.01); **G01F 1/84** (2006.01); **E21B 47/06** (2012.01); **G01N 11/08** (2006.01)

CPC (source: EP US)

**E21B 21/08** (2013.01 - EP US); **E21B 47/06** (2013.01 - EP); **E21B 49/08** (2013.01 - US); **G01N 11/08** (2013.01 - EP); **G01N 2011/0026** (2013.01 - EP)

Citation (search report)

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- [X] US 3885429 A 19750527 - MEGYERI MIHALY, et al
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- [A] US 3468158 A 19690923 - CHIEN SZE-FOO
- See also references of WO 2021003362A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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